



DV01a viewed from the west.



DV01a viewed from the north.

FO-S

Free-oil Recovery

DV

Diversion Booming

SR

Shoreside Recovery

Protected-water Boom

Tidal-seal Boom

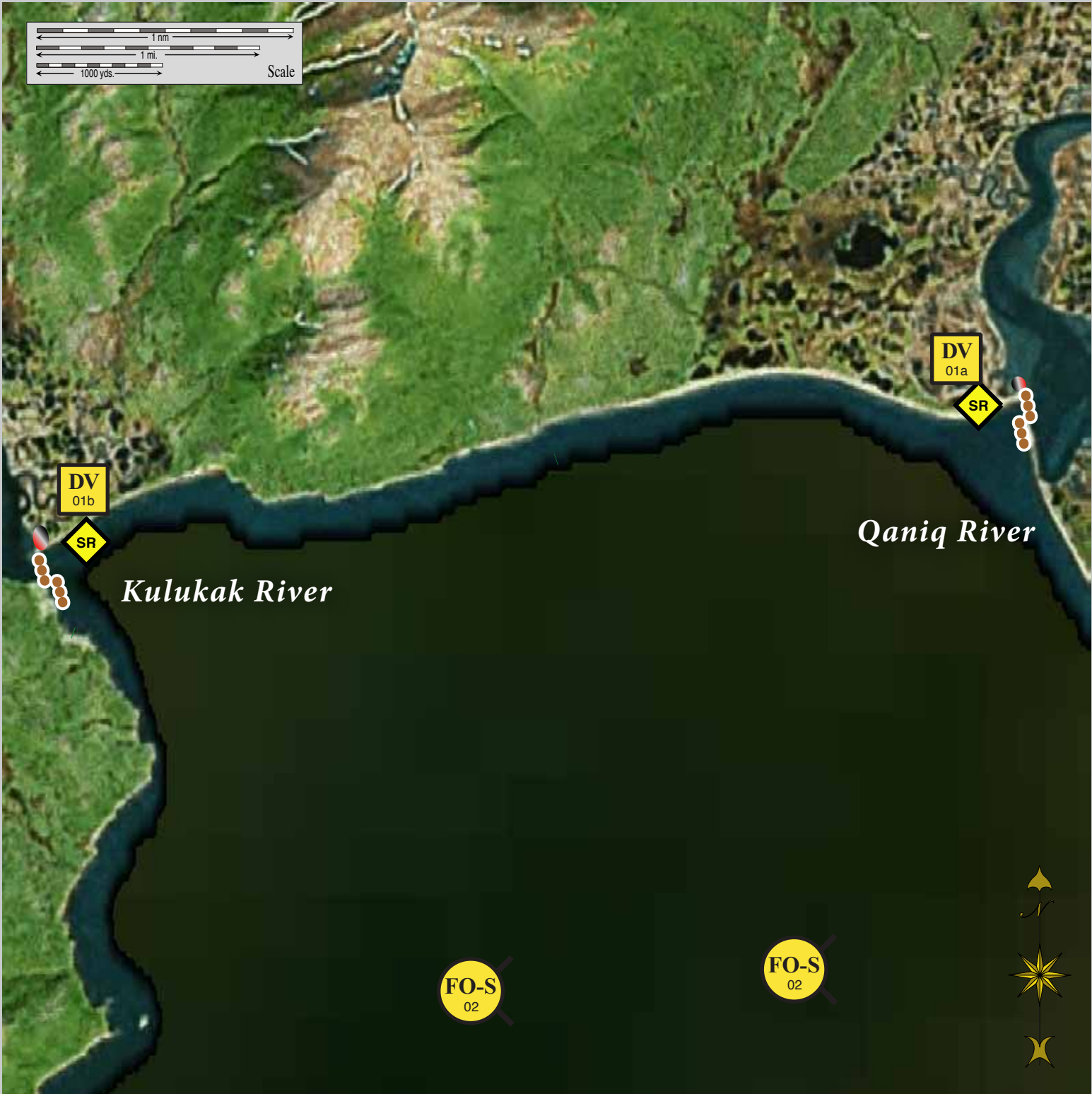
Legend

Map

Geographic Response Strategies for  
Bristol Bay Subarea, Northern Zone

# Kulukak & Qaniq River, BB-N08

Center of map at 58° 54.34' N Lat., 159° 40.31' W Lon.



This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
N-08-01 <div>DV</div>	<b>Kulukak &amp; Qaniq Rivers</b>  a. Lat. 58° 57.07'N Lon. 160°39.94'W  b. Lat. 58° 57.29'N Lon. 160°29.28'W	<b>Divert and Collect</b> Divert oil to shore side collection location on the shore of the Kuigmi River.	Deploy anchors and boom with skiffs (class 6).  At each location cascade 2 sections of fast-water boom at the proper angle to divert incoming oil to the collection sites. Complete the array with 60 ft. of tidal seal boom on the shore that will be used as a collection site.  Set up shore-side recovery and tend throughout the tide.  Boom Lengths: a. 800 ft b. 650 ft	<b>Deployment Equipment</b> 1450 ft. fast-water boom 120 ft. tidal seal boom 12 ea. anchor systems 8 ea. anchor stakes 2 ea. shore-side recovery systems <b>Vessels</b> 1 ea. class 3 2 ea. class 6 <b>Personnel/Shift</b> 7 ea. vessel crew/general techs 2 ea. response techs <b>Tending Vessels</b> 1 ea. class 3 1 ea. class 6 <b>Personnel/Shift</b> 4 ea. vessel crew/general techs 2 ea. skilled tech	Vessel Platform	Via marine waters  Chart 16315	Fish- intertidal spawning- salmon (June-Sept.), capeline, sheefish, white fish  Birds-waterfowl, seabird and shorebird concentration  Habitat- exposed tidal flats, peat shoreline, marsh,  Human use-subsistence, commercial fishing	Vessel master should have local knowledge.  Take precautions to protect the shoreline as outlined in the Alaska STAR Manual.  Title 41 permitting required from ADNDR.  A large population of bears are in this area. Bear guard required.  Surveyed: not yet  Tested: not yet
N-08-02 <div>FO-S</div>	<b>Kulukak &amp; Qaniq Rivers</b> Nearshore waters in the general area of:  Lat. 58° 54.34"N Lon. 159°40.31'W	<b>Free-oil Recovery</b> Maximize free-oil recovery in the offshore & nearshore environment of Kulukak Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Kulukak Bay.  Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Togiak	Via marine waters  Chart 16315	Same as N-08-02	Vessel master should have local knowledge.  Use extreme caution, shallow waters with shifting channels and bars.